

Notice of Allowability

Application No.

09/819,936

Examiner

Shervin Nakhjavan

Applicant(s)

KAWAGUCHI ET AL.

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment recived on 5-16-05.
2. ☒ The allowed claim(s) is/are 4,8-15 and 18-26.
3. ☒ The drawings filed on 27 March 2001 and 16 May 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 7/14/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Persson (Reg. 41,248) on 7-14-05.

The application has been amended as follows:

Claim 24, Line 15, change "said decomposed binary image;" to read --at least one of said decomposed binary images;--.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: claims 4, 8-15, and 18-26 are allowed because, the prior art of record specifically Zhao et al. (US 6,243,480) and Knox (US 5,734,752) does not teach embedding information data into a printing data by *replacing complex local portions* of at least one of said bit-planes with information data, printing the embedded image for printing and extracting the printed matter and said information data form the printed image of claim 4 and 15 combined with other features and elements of the claims; and scanning a printed matter which includes an information data, converting the scanned data into numerical data, representing said numerical data as pure binary code, decomposing said numerical data into a set of binary images, extracting said information data from at least one of

Art Unit: 2621

said decomposed binary images of claim 24 combined with other features and elements of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Other prior art cited

3. Prior art of record cited and not relied upon is considered pertinent to applicant's disclosure.

The US Patent 6,886,750; US Patent 6,731,788; US Patent Application 20040071312; US Patent 6,580,804 and US 6,215,421 variously teach embedding of data into image specifically related to applicant's invention as claimed.

Contact information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shervin Nakhjavan whose telephone number is (571) 272-7395. The examiner can normally be reached on Monday through Friday from 8:00 am to 5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joe Mancuso, can be reached at ((571) 272-7695.

Any response to this action should be mailed to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Or faxed to:
(571) 273-8300 for *formal* communications,

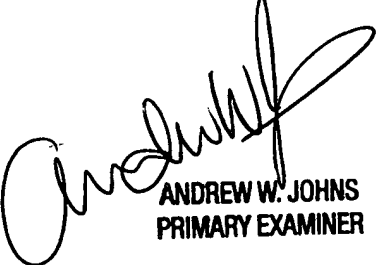
Art Unit: 2621

Hand delivered responses: (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolator, etc.)

**United States Patent and Trademark Office
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Alexandria, VA 22314**

Any inquiry of a general nature or relating to the status of this application should be directed to the Tech center 2600 customer service office **(571) 272-2600**.

Shervin Nakhjavan *S.N*
Patent Examiner
Group Art Unit 2621
July 14, 2005


**ANDREW W. JOHNS
PRIMARY EXAMINER**